

Appl No. 09/849,786
Amtd. dated November 28, 2005
Reply to Office action of August 25, 2005

BEST AVAILABLE COPY

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A communications module comprising:
a first section for processing data in accordance with at least a first communication standard, wherein processing data in accordance with at least a first communication standard includes at least one of modulating and demodulation the data, wherein said first section includes a connecting member for electrically connecting said first section with an external HOST processor; and
a second section for transmitting and receiving data via an antenna mounted on the second section in accordance with the first communication standard, said second section detachable from the first section, wherein said second section is replaceable with a third section for transmitting and receiving data via an antenna mounted on the third section in accordance with a second communication standard;
wherein the first section and second section are electrically connected via respective mating connecting members; and
wherein the first section is connected to not more than one of the group consisting of the second section and the third section concurrently.
2. (Original) A communications module according to claim 1, wherein said first communication standard uses a first frequency band.
- Claim 3 (Cancelled)
4. (Original) A communications module according to claim 1, wherein said second communication standard uses a second frequency band.
5. (Cancelled)

Appl No. 09/849,786
Amdt. dated November 28, 2005
Reply to Office action of August 25, 2005

BEST AVAILABLE COPY

6. (Original) A communications module according to claim 1, wherein said first section includes a Medium Access Control (MAC) processing system, and a physical layer (PHY) processing device.

7. (Original) A communications module according to claim 6, wherein said first section includes at least one memory device.

8. (Cancelled)

9. (Previously Presented) A communications module according to claim 1, wherein said second section includes a first circuit for converting signals between radio frequencies and intermediate frequencies.

10. (Original) A communications module according to claim 9, wherein said second section includes a second circuit for converting a signal between intermediate frequencies and baseband frequencies.

11. (Previously Presented) A communications module according to claim 1, wherein said second section includes a first circuit for converting signals between radio frequencies and baseband frequencies.

12. (Original) A communications module according to claim 1, wherein said second section includes a low noise amplifier (LNA).

13. (Cirrently Amended) A communications module comprising:
a first section including means for processing data in accordance with at least a first communication standard, wherein processing data in accordance with at least a first communication standard includes at least one of modulating and demodulation the data, wherein said first section includes a connecting means for electrically connecting said first section with an external HOST processor; and

Appl No. 09/849,786
Amdt. dated November 28, 2005
Reply to Office action of August 25, 2005

a second section including means for transmitting and receiving data via an antenna mounted on the second section in accordance with the first communication standard, said second section detachable from the first section,

wherein said second section is replaceable with a third section including means for transmitting and receiving data via an antenna mounted on the third section in accordance with a second communication standard;

wherein said first section and said second section are electrically connected via respective means for connecting; and

wherein the first section is coupled to not more than one of the group consisting of the second section and the third section concurrently.

14. (Original) A communications module according to claim 13, wherein said first communication standard uses a first frequency band.

Claim 15 (Cancelled)

16. (Original) A communications module according to claim 13, wherein said second communication standard uses a second frequency band.

17. (Cancelled)

18. (Original) A communications module according to claim 13, wherein said first section includes a Medium Access Control (MAC) processing system, and a physical layer (PHY) processing device.

19. (Original) A communications module according to claim 18, wherein said first section includes at least one means for storing data.

20. (Cancelled)

Appl No. 09/849,786
Amdt. dated November 28, 2005
Reply to Office action of August 25, 2005

21. (Previously Presented) A communications module according to claim 13, wherein said second section includes first conversion means for converting signals between radio frequencies and intermediate frequencies.

22. (Original) A communications module according to claim 21, wherein said second section includes a second conversion means for converting a signal between intermediate frequencies and baseband frequencies.

23. (Previously Presented) A communications module according to claim 13, wherein said second section includes conversion means for converting signals between radio frequencies and baseband frequencies.

24. (Original) A communications module according to claim 13, wherein said second section includes means for amplifying a signal.

25. (Previously Presented) A communications module, comprising:
a first housing for housing a digital section of the communications module, the first housing comprises:

- a first connecting member for electrically coupling the first section with an external HOST processor,

- a second connecting member,

- a physical layer processor coupled to the second connecting member, and

- a media access control processor coupled to the physical layer processor and the first connecting member; and

a second housing for housing an RF section of the communications module, the second housing detachable to the first housing and comprises:

- a connecting member for electrically coupling the second section to the second connecting member of the first section,

- a circuit for converting between a baseband frequency and an RF frequency coupled to the connecting member, and

Appl No. 09/849,786
Amdt. dated November 28, 2005
Reply to Office action of August 25, 2005

an antenna coupled to the circuit for converting between the baseband frequency and an RF frequency.

26. (Previously Presented) A communications module according to claim 25, further comprising one of the group consisting of a non-volatile memory and a volatile memory coupled to the media access controller.

27. (Previously Presented) A communications module according to claim 25, the circuit for converting a baseband signal to an RF signal comprising:
a circuit for converting the baseband signal to an intermediate frequency coupled to the connecting member; and
a circuit for converting the intermediate frequency to the RF frequency coupled to the circuit for converting the baseband signal to the intermediate frequency.

28. (Previously Presented) A communications module according to claim 27, the second section further comprising a low noise amplifier coupled between the circuit for converting the intermediate frequency to the RF frequency and the antenna.

29. (Previously Presented) A communications module according to claim 25, the physical layer processor further comprising one of the group consisting of an analog to digital converter and a digital to analog converter.

30. (Previously Presented) A communications module according to claim 25, wherein the baseband frequency of the circuit for converting between a baseband frequency and an RF frequency is coupled to the connecting member for electrically coupling the second section to the second connecting member of the first section, and the RF frequency of the circuit for converting between a baseband frequency and an RF frequency is coupled to the antenna.

31. (New) A communications module according to claim 25, wherein the communications module is a personal computer client adapter and the first connecting member is one of the group consisting of a Personal Computer Memory Card International Association type

AppI No. 09/849,786
Amdt. dated November 28, 2005
Reply to Office action of August 25, 2005

II connector, a Personal Computer Memory Card International Association extended type II connector, and a Personal Computer Interface connector.

32. (New): A communications module according to claim 25, wherein the second connecting member of the first housing and the connecting member of the second housing are one of the group consisting of a zero insertion force and a low insertion force connector.